

ABSTRACT

A method for compressing 4D image data to accelerate the visualization of the data comprising the sequential steps of
5 compressing a first 3D image using run length encoding (RLE),
detecting changes between the first 3D image and subsequent
time varied 3D images by dividing each subsequent time varying
3D image into a plurality of sub-volume voxels and performing a
chi-squared test on corresponding voxels contained in each
10 subsequent time varying 3D image and the sub-volume voxels in
which was last detected a change, and compressing the data of
each, subsequent successive time varying 3D image using run-
length encoding.

5LJF01!.DOC\88888888\116\261195.01